



Chad Stracener



Dear Valued Customer:

I hope 2025 is going well.

As always, we are proud of our partnership with Komatsu, which continues to make innovative products and solutions that are shaping today's and tomorrow's equipment industry landscape. Komatsu's Demo Days gave customers the chance to see and operate machines across the construction sector, such as the new 70-ton Komatsu HD605-10 rigid-frame mechanical haul truck. Komatsu's Smart Construction and Smart Quarry solutions were also on display, including 3D Machine Guidance Flex, which adds the capability to collect as-built data from nearly any machine.

With many Smart Construction solutions available, check out the article that offers recommendations for determining which one makes the most sense for your operation. It can help you figure out what solutions you need and when is the right time to add them.

As the busy construction season continues, fuel savings should be considered. In addition to using a hybrid machine, there are other ways to reduce fuel usage such as limiting idle time. We offer several fuel-saving tips inside this issue.

If you are looking for a more fuel-efficient large wheel loader, Komatsu's new WA700-8 may be a solution. It has up to 8% more fuel efficiency than its predecessor while giving you up to 8% more gross power and 15% more torque. It's great for demanding work.

We wish you success in 2025 and beyond, and know that we are here to help with all your equipment, parts, service and technology solutions needs.

As always, if there is anything we can do for you, please feel free to call or stop by one of our 20 locations.

Sincerely,

Chad Stracener Chairman/CEO

Many solutions available



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From Flintstones to Jetsons

Komatsu IMC equipment revolutionized operations for Clyde Gilleland Contractor Inc.'s residential and commercial projects



Scott Gilleland, CEO



David Gilleland, CFO

lyde Gilleland Contractor Inc., founded in 1977, has deep roots in Georgia's construction industry.
Established by Clyde Gilleland, the company was a spinoff of Gilleland and Son — the fifth largest contractor in the Southeast at the time. Today, Clyde's legacy continues through his son, Scott Gilleland, and Scott's partner, David Gilleland.

"My dad built this company on hard work and strong relationships," said Scott, who serves as the company's chief executive officer. "We're like family here. Everyone looks out for each other, and that's the way I want to keep it."

Based in Jasper, Ga., Clyde Gilleland Contractor operates primarily in Bartow and Paulding counties, avoiding Atlanta's urban sprawl. The company currently has 11 employees and handles a wide range of services for its repeat clients, including sewer systems, storm drains, site clearing and other site development necessities. Projects span from small commercial developments to expansive residential subdivisions.

"We've worked on everything from 2-acre to 200-acre sites," Scott noted. "We've built great relationships with our clients over the years, so we'll move anything from an anthill to a mountain for them. All of our work is repeat customers and word of mouth."

One of Clyde Gilleland Contractor's current projects involves converting a former bank site in Cartersville, Ga., into a mixed-use property with plans for restaurants and residential units above them. The work includes clearing the site, installing storm drains, and preparing the foundation for new construction.

Increased efficiency with IMC

As the chief financial officer, David manages the company's finances and technology, giving Clyde Gilleland Contractor a competitive advantage in a rapidly evolving industry.

"My role is to integrate technology into our processes," David explained. "We've adopted tools that improve efficiency and reduce costs, and the results have been transformative."

"We've adopted tools that improve efficiency and reduce costs, and the results have been transformative."

> - David Gilleland, CFO, Clyde Gilleland Contractor Inc.

Most notably, Clyde Gilleland Contractor has incorporated Komatsu intelligent machine control (IMC) equipment into its operations, including a D51PXi-24 IMC dozer, a PC360LCi-11 IMC excavator and a PC490LCi-11 IMC excavator.

Customer snapshot

Company: Clyde Gilleland Contractor Inc.

Location: Jasper, Georgia

Employees: 11 Established: 1977

Area of expertise: Residential and commercial site development **Komatsu equipment:** D51PXi-24 IMC dozer, PC360LCi-11 IMC

excavator and PC490LCi-11 IMC excavator

Komatsu technology: intelligent machine control (IMC)

Clyde Gilleland Contractor transforms a hillside into a residential complex.





An operator uses a Komatsu PC360LCi-11 intelligent machine control (IMC) excavator to cut a ditch to grade for a new pipe installation at a project in Cartersville, Ga.

Scott was initially skeptical, but Tractor & Equipment Company sales representative Charlie Pettit convinced him to try it.

"I was hesitant at first, but Charlie was persistent," Scott commented. "He brought a machine out for us to test, and once I saw the difference, there was no going back. It really amazed me. It was like going from the Flintstones to the Jetsons overnight."

With IMC, Clyde Gilleland Contractor no longer relies on surveyors or manual grade checks, significantly cutting down on delays. The company now completes more complex jobs with smaller crews, which helps reduce labor costs and increase productivity.

"We've doubled our efficiency."

- David Gilleland, CFO, Clyde Gilleland Contractor Inc.

"We've doubled our efficiency," David declared. "Instead of needing three people to check grades, we can put one on an IMC machine that will identify the grade for them. That helps us move dirt faster and with greater precision, which means no second-guessing, no waiting on surveyors, and no mistakes to correct later."

The Komatsu PC490LCi-11 IMC excavator has been particularly impactful, especially on projects involving large-scale earthmoving.

"Previously, we were using a PC360 excavator to load off-road trucks, which took eight or nine passes each time," Scott recalled. "Charlie suggested trying a 490 with a 72-inch bucket, which I thought would be too big, but now we're loading trucks in just three to four passes. It's been such a boost in efficiency that we had to add another truck to keep up."

David further enhanced operations by purchasing a drone to conduct progress assessments and generate billing reports.

"The drone tells us exactly how much dirt we've moved," David explained. "It ensures our billing is accurate and keeps everything transparent. Our clients appreciate receiving detailed reports that match the progress on-site, which builds trust and improves communication."

Reliable TEC support

Clyde Gilleland Contractor's relationship with TEC has played a key role in the company's ability to operate efficiently and embrace new technology. TEC's dedicated support team has consistently provided solutions and ensured equipment runs smoothly.



Discover more at TECTractorTimes.com

Continued . . .

'I was born to be on a jobsite'

... continued

"TEC has been great," Scott reflected. "Whether it's Charlie checking in weekly or their tech expert Richard Shore troubleshooting remotely, we always feel prioritized."

Clyde Gilleland Contractor's trust in TEC comes from TEC's quick response times and commitment to resolving issues efficiently.

By the numbers

- Projects typically range from 2 acres to 200 acres
- Efficiency was doubled with Komatsu IMC equipment
- Trucks are loaded in 3 to 4 passes with a Komatsu PC490LCi-11 IMC excavator equipped with a 72-inch bucket



David Gilleland (center) verifies grade depth and width using a base and rover station.

Whether it's routine maintenance or an urgent problem, TEC consistently ensures that every need is addressed.

"When I call, they answer the phone," Scott said.
"From delivering parts to providing training, they
go above and beyond to keep us running. Their
commitment makes a big difference in our ability
to meet deadlines and maintain efficiency."

"TEC has been great."

- Scott Gilleland, CEO, e Gilleland Contractor

Clyde Gilleland Contractor Inc.

Quality over quantity

Looking ahead, Clyde Gilleland Contractor has a strong pipeline of projects, though Scott is committed to maintaining the company's manageable size.

"We might add another crew, but I don't want to get too big," Scott said. "Staying small lets us focus on quality and ensures every project gets my personal attention."

Scott's passion for the work keeps him motivated every day.

"I was born to be on a jobsite," Scott concluded. "It's not just work — it's who I am. As long as I can, I'll keep showing up and making sure we get it right."

*The opinions expressed here are from the end user as quoted. The results described herein are those of these end users under certain conditions. Individual results may vary.

Clyde Gilleland Contractor uses Komatsu IMC equipment like the PC490LCi-11 IMC excavator and D51PXi-24 IMC dozer to tackle complex projects more efficiently.



SMART CONSTRUCTION



Tractor & Equipment Company knows that productivity is a key factor to the success of any job site. Komatsu's Intelligent Machine Control technology is designed with your productivity in mind. Through automatic dozing, rough cut to finish grade, IMC-equipped machines help you make every pass count to achieve superior production compared to traditional aftermarket systems.



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Delivering on infrastructure projects

Mark Johnson Construction specializes in wastewater and water treatment rehabilitation jobs with a loyal team and reliable equipment



Mark Johnson, Owner

ark Johnson Construction LLC has been a staple in the wastewater and water treatment industry for nearly 15 years. Mark Johnson, who comes from a family of contractors, built the business from the ground up with a focus on quality workmanship and strong relationships.

"I grew up around equipment," Johnson shared.
"My dad and granddad were contractors in
Mississippi, doing oil field construction. I went

to Mississippi State, got a building science degree and started my career in Miami, but my wife and I wanted to be closer to home, so I took an opportunity in Alabama. After working for a few companies over the years, I decided to start this company in 2010."

"We don't have much turnover, and I think that stability has been a big part of our success."

> -Mark Johnson, Owner, Mark Johnson Construction

Mark Johnson Construction's core work revolves around wastewater and water treatment plants, pump stations and pipeline installations. It also maintains contracts with utility companies and municipalities, including Alabama Power and the city of Huntsville, for ongoing infrastructure work.

Customer snapshot

Company: Mark Johnson Construction LLC

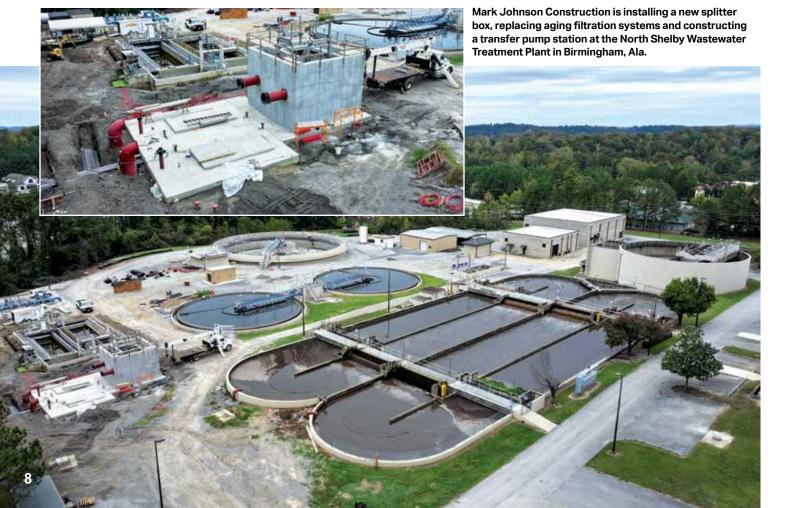
Location: Tuscaloosa, Alabama **Employees:** Approximately 50

Established: 2010

Areas of expertise: Wastewater and water treatment plant construction,

maintenance and infrastructure improvements

Komatsu equipment: PC210LC-11 excavators; WA270-8 wheel loaders





Project Manager Noah Egan moves material at the North Shelby Wastewater Treatment Plant with a Komatsu PC210LC-11 excavator.

"Wastewater treatment and water treatment facilities are our niche," emphasized Project Manager Noah Egan. "The projects vary in size, but we've done everything from small rehab jobs to multimillion-dollar upgrades."

Operating primarily in Alabama, the company occasionally extends its reach into Mississippi, Tennessee and Florida.

"We work in about a three-hour radius from Tuscaloosa," Johnson noted. "Our teams travel to Birmingham, Huntsville and Madison regularly. We also take on select projects outside the state when the opportunity makes sense. Most of our work is municipal."

A key factor in Mark Johnson Construction's success is its team. With around 50 employees, the company maintains a strong workforce while subcontracting specialty trades like electrical and HVAC.

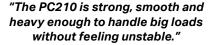
"We have some really good guys, and many of them have been with me for 20-plus years," Johnson reflected. "They're loyal, and I try to be the same to them. We don't have much turnover, and I think that stability has been a big part of our success."

Tackling wastewater challenges

Currently, Mark Johnson Construction is working on a project at the North Shelby Wastewater Treatment Plant in Birmingham, Ala. The job involves installing a new splitter box, replacing aging filtration systems and constructing a transfer pump station.

"This project has been ongoing for almost a year," Egan stated. "We had to demolish an old pump station, excavate 20 feet down and replace unsuitable soil before rebuilding. It's a complex process, but that's what makes this work rewarding."

To tackle such demanding projects, the company relies on Komatsu equipment, which has become an integral part of its operations.



-Noah Egan, Project Manager, Mark Johnson Construction

"We have a Komatsu PC210 excavator and a WA270 wheel loader on this job," Egan explained. "The PC210 is strong, smooth and heavy enough to handle big loads without feeling unstable. We use it for everything from setting manholes to pouring concrete. It's one of the most versatile machines we have."

Egan added, "We use the WA270 for moving materials and backfilling. On this project, we had to move thousands of yards of rock into an excavation, and the loader handled it without a problem."



Noah Egan, Project Manager

Continued . . .

'They've provided great service'

... continued

Beyond power and versatility, the reliability of Komatsu equipment has been a major advantage.

"The machines have been great," Johnson said. "Reliability is important because downtime on a job like this can be costly."

Service that stands out

Mark Johnson Construction's relationship with its equipment distributor, Tractor & Equipment Company, has played a crucial role in ensuring it stays productive.

By the numbers

- 3-hour working radius around Tuscaloosa
- 20-foot excavation was recently required for the North Shelby Wastewater Treatment Plant project
- Approximately 2,000 yards of rock were moved with a Komatsu WA270-8 wheel loader to backfill and stabilize the site

Mark Johnson Construction's equipment fleet includes two Komatsu WA270-8 wheel loaders.



"TEC has been great to work with," Johnson declared. "Our salesman, Justin Bryant, is always available when we need him. He's helped us get equipment on-site quickly, even before we finalize purchases, to keep us working. We couldn't ask for any better effort from him."

Egan echoed those sentiments, emphasizing TEC's quick response time.

"We had an issue with our WA270 the day it was delivered," Egan commented. "It turned out to be operator error, but TEC had a technician and Justin on-site within hours to help us figure it out. That kind of service is rare."

The decision to switch to Komatsu through TEC came after years of working with another supplier. Johnson values consistency but saw an opportunity for better support and equipment solutions.

"TEC has been great to work with. Our salesman, Justin Bryant, is always available when we need him."

> -Mark Johnson, Owner, Mark Johnson Construction

"I like to stick with what works, but TEC and Justin gave us a reason to make a change," Johnson said. "They've provided great service, and the equipment has performed well, so it was an easy decision."

Reputation driving growth

Looking ahead, Mark Johnson Construction plans to continue its steady growth while maintaining the quality and reputation it has built over the years.

"We have a strong backlog of work, and we're operating at full capacity," Johnson remarked. "The biggest challenge now is finding skilled people to keep up with demand, but we're in a good place and focused on keeping our standards high."

For Johnson, the business philosophy remains simple: do good work, treat people fairly and build strong relationships.

"Reputation is everything in this business,"
Johnson stated. "If you do good work and treat
people right, the opportunities will keep coming.
That's what has kept us successful, and that's
what we'll continue to do."

*The opinions expressed here are from the end user as quoted. The results described herein are those of these end users under certain conditions. Individual results may vary.



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- Go from mass excavating to finished grading faster than ever
- Help eliminate potential damage to design surface
- Empower operators to work efficiently, pass after pass

Discover more ► komatsu.com/imc



Expand data-collection capabilities

Smart Construction 3D Machine Guidance Flex allows more machines and personnel to see as-built data faster

n a modern construction site, the more data you collect—especially as-built data—the more precisely you know your job progress, and the more confidently you can make key decisions. Smart Construction 3D Machine Guidance Flex can collect as-built data from nearly any machine, including scrapers, loaders or pickups.

As-built data from 3D Machine Guidance Flex and a 3D mapping program such as Smart Construction Dashboard provide valuable insights and analysis daily. With 3D Machine Guidance Flex, the machine or truck constantly maps the terrain as it moves about the site. Adding the as-built data to 3D visualization software lets you know exactly how much work has been done and how it compares to the digital project plan.

"3D Machine Guidance Flex will automatically connect to Dashboard, allowing more personnel to understand grade information and as-built, and make decisions that affect personnel, machinery and production faster."

Ron Schwieters,
 Smart Construction Senior
 Customer Manager,
 Komatsu

Rough grading done by larger machines equipped with a GNSS solution such as 3D Machine Guidance Flex can be much more accurate, enabling you to deploy grade checkers elsewhere and increasing jobsite efficiency and productivity. Multiple machines, trucks and personnel can use 3D Machine Guidance Flex at once.

"Komatsu's 3D Machine Guidance solution was originally designed just for excavators," explained Ron Schwieters, Smart Construction Senior Customer Manager, Komatsu. "3D Machine Guidance Flex expands on that to give more machines and more personnel on the jobsite very visual guidance on cut and fill areas with a color-coded map—green is on grade, red is cut, and blue is fill. Prior to launch, we did a series of trials on various types of machines and trucks. It really changed the scraper operator's perspective. They were no longer relying on survey personnel to tell them where grade is

and where to move material. With the information they needed directly on the in-cab monitor, they felt more empowered, and operations really picked up."

Prevent over-digging and missed fills

A tablet mounted in the machine's cab shows the operator the current topography laid over the 3D design to guide them toward the finished product. Because the operator has constant position data of their machine versus the design, they can move large amounts of material without needing a grade checker, and they can see where to dig and when to stop to prevent over-digging.

Site managers can constantly monitor elevations around the jobsite using the as-built data from 3D Machine Guidance Flex using Smart Construction Dashboard. Managers can more easily catch mistakes, like missed fills, and calculate the daily production volume.

"3D Machine Guidance Flex will automatically connect to Dashboard, allowing more personnel to understand grade information and as-built, and make decisions that affect personnel, machinery and production faster," said Schwieters. "Adding both solutions is easy. We recommend contacting your Komatsu distributor to get started."



Data-driven solutions

Smart Construction suite can help you increase productivity, track it and make critical decisions that affect it faster

ata is a driving force behind making critical decisions that can potentially have a major impact on construction companies' bottom lines. With new machinery and technology, data is more accessible and faster to get than ever before.

"Machine intelligence that collects data and software that gives users the ability to access it via the cloud from practically anywhere and at anytime continues to increase exponentially," said Jason Anetsberger, Director, Customer Solutions at Komatsu. "Users can visualize production, collect as-built data and update plans remotely in real or near-real time. That promotes a more proactive approach to decision-making that factors into project-scheduling adjustments and affects profitability."

A good example

Anetsberger used an example that included multiple Komatsu Smart Construction solutions such as intelligent machine control (IMC) dozers and excavators with factory-integrated GPS grade control and 3D Machine Guidance, which can be added to traditional excavators and is now a factory-install option on some newer machines.

"Those machines are collecting data in real time, and that is aggregated into our Smart Construction Dashboard solution that gives users a clear picture of the current as-built," noted Anetsberger. "You can easily track information such as how much material has been moved, length of trench dug and more. In addition to making adjustments that affect productivity, you can use that information to document the project and prove it was built to plans with little to no surveying. If a change in plans occurs, Smart Construction Remote lets you send the plan update directly to the machine without the need to drive to the site, saving time and expense."

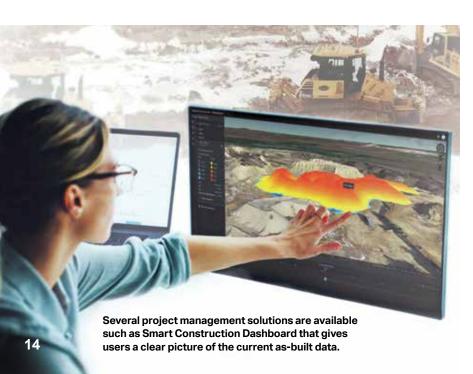
Anetsberger continued, "We recently had a first-time technology user on a project utilizing a PC490LCi-11 IMC excavator and Dashboard. The project involved digging underwater and was on a site where drone flights to survey weren't allowed. The contractor did a daily as-built and reported it to the site's owner and the state department of ecology. It proved a huge success to all, especially the contractor who completed what was scheduled to be a 45-day excavation in 20 and had an accurate representation of the finished job. They will now use a D61i IMC dozer and Dashboard to fill in the site, put it to final grade and complete a new as-built."

Adding solutions

Komatsu IMC machines, 3D Machine Guidance, Dashboard and Remote are part of Komatsu's Smart Construction suite of solutions designed to increase efficiencies. Anetsberger offered some recommendations for determining what Smart Construction solution makes the most sense for your operation, providing some helpful tips for how to figure out what solutions you need and when is the right time to add them. All the solutions can be accessed and viewed through your My Komatsu account.

"IMC machines were our original solution, and we still recommend them as a starting point on your Smart Construction journey," said Anetsberger. "3D Machine Guidance — formerly Retrofit — is another great option, as it adds an indicate-only system to legacy machines or new machines without IMC. If you have those, adding Dashboard and Remote are logical next steps to make a powerful combination."

To determine your next steps, Anetsberger recommends a further assessment of your goals and asking questions such as:





- Do you want faster, more accurate mapping and progress tracking?
- Do you want to move to 3D digital plans and combine drone data with 3D design data to confirm quantities?
- Do you want better labor management and cost tracking and be able to do it remotely?

One option is Smart Construction Office, a scheduling and management solution that serves as a central hub for all your jobs and can help replace manual production and cost tracking with streamlined daily automation that delivers timely updates, insights, auto-forecast schedules and cost estimates throughout a project's lifecycle. It also has an artificial intelligence project assistant known as Carmen that works in real time scanning and analyzing information and providing recommendations to keep projects on time and on budget.

Additional Smart Construction solutions include:

 Design — Lets you move from rolled-up plans to a digital design file with Komatsu's 3D generation service, so you have accurate data that is easily shared, replicated and updated

- Drone Delivers high-precision mapping that can be done 50% faster than a walking survey; drone mapping helps with planning, sends data as you progress and gives you information that you can turn into efficiencies and better reporting
- Field Connects humans, machines and materials to automate data collection on the jobsite, so you can accurately analyze your operational costs and efficiencies in real time
- Fleet Collects the data you need to help optimize your fleet and track production, all on a mobile app
- Base/Rover Functions as an RTK base station or RTK rover for collecting data, staking features and measuring surfaces relative to 3D designs; works seamlessly with Komatsu IMC machines and Smart Construction 3D Machine Guidance systems

"There are so many easy ways to implement technology solutions into your operations," concluded Anetsberger. "We encourage anyone who wants to streamline and optimize their operations to learn about Smart Construction solutions by talking to their distributor about how to get started."

Hands-on happenings at Cartersville

During Demo Days, customers learn about equipment and solutions that can help drive efficiencies from preplanning to final closeout



aining general insights into how equipment and technology provide value can benefit your operations. The ability to experience a machine for yourself from the operator's seat takes it to another level. Komatsu gave attendees plenty of both during Demo Days, which took place over three days at Komatsu's Cartersville Customer Center in Georgia.

More than 40 products, ranging from compact excavators to large construction, demolition, forestry and mining machines, were available for customers to see up close and operate. Representatives from Komatsu and Komatsu affiliates, such as Montabert, Lehnhoff, and Hensley Industries, provided insights on implementing equipment and attachments within jobsite operations.

Komatsu Smart Construction and Smart Quarry representatives set up display areas to provide information on solutions available for jobsite





management, such as Smart Construction Remote, Office, Field and Drone, as well as Smart Quarry Site and Smart Quarry Study. My Komatsu representatives also provided information about Komatsu's central hub for fleet management.

"Demo Days is about more than just the gear; it's about the solutions we can bring to you to aid in your optimization and efficiency from preplanning a project to its finish."

> - Peter Robson, Senior Director of Product, Komatsu

"We have lots of gear to run, but Demo Days is about more than just the gear; it's about the solutions we can bring to you to aid in your optimization and efficiency from preplanning a project to its finish," said Peter Robson, Senior Director of Product, Komatsu. "Demo Days gives customers a complete picture of what we have to offer in helping them with equipment and the digital transition of their operations."

Informative presentations

Each day began with informative presentations about equipment and Smart Construction



and Smart Quarry solutions that Komatsu offers to help drive productivity, efficiency and customers' sustainability goals. Hands-on operation followed, letting customers operate a mix of standard, intelligent machine control (IMC), hybrid and electric machinery in working environments across the 38-acre site.



Watch the video

Continued . . .

'It's great that they take time to come down here'

... continued





Customers could operate the new 70-ton Komatsu HD605-10 rigid-frame mechanical haul truck, which offers a tight turning radius designed for easy navigation on narrow haul roads. New solutions included 3D Machine Guidance Flex, which adds the capability to collect as-built data from nearly any machine, such as a scraper, loader or pickup.

"One of the highlights for us during Demo Days is listening to customers because that moves us forward and helps us develop the features and benefits for future machines and solutions," commented Robson. "We hope customers go back to their businesses with great memories and all their questions answered. It's great that they take time to come down here, and we thank them and their distributors for making the trip."

By the numbers

- 3-day event
- 40+ products on display
- 300+ attendees
- 5 industries represented: construction, quarry, aggregate, demolition and forestry

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Tips to help keep operating costs down

Find lower fuel costs with five timely tips

uel is a necessity and a major expense item for construction companies. As prices spike, so does the possibility that your profitability might take a hit, but there are ways to help lower your fuel bill and operating costs.

Reduce your idle time

Idling is necessary in certain situations, such as warming up a machine and before shutting down at the end of the day. It could also be justified when you are in high-production activities that involve near-constant movement, such as loading trucks with an excavator and charging crushers with a loader, where restarting would negatively affect productivity.

Telematics helps fleet managers easily track idle time by machine and for their entire equipment lineup. If they see excessive idling, they can then address that with operators and other on-site personnel.

An easy way to help control idle time during unproductive periods is to use the auto idle shutdown function, a feature available on most Tier 4 Final machines. Your machines' operations and maintenance manuals can

guide you on how to set it—the minimum is five minutes before the shutdown begins in most cases—and your local dealer can help, too.

Heed Eco Guidance and choose the right mode

Komatsu's ECO Guidance provides information to operators on energy-saving operations that help control fuel consumption. It is a feature on most Komatsu machines introduced during the past 10 years. Idling stop guidance is among the suggestions that may be available with ECO Guidance. With this option, typically if no operation is performed for more than five minutes and the engine is idling, the idling stop message is displayed on the monitor.

ECO Guidance is most useful when you choose the most effective mode. ECO Guidance might also suggest operating in "economy" instead of "power" mode.

- The "economy" mode promotes enhanced fuel efficiency but maintains working equipment speed for light-duty work, similar to the "power" mode
- Excavators and dozers are mainly used to dig and move naturally compacted soils,





and in most instances, "economy" mode will get the job done while controlling fuel burn

 The "power" mode is advantageous in heavy-duty applications, such as when a wheel loader must climb a 10% ramp with a full bucket or when an excavator moves hard material like heavy clay

Consider a hybrid

Another thing to consider is purchasing or renting a hybrid excavator, such as the Komatsu HB365LC-3. Hybrid excavator technology is designed to provide a fast and responsive swing, and when swinging, to have all available hydraulic power sent to the boom, arm and bucket to help improve cycle time and enhance production.

Properly size and match equipment for the task

Bigger is not always better, and using a large machine to do a job that a smaller one could do can increase fuel usage and your overall operating costs. Fleet managers need to consider several factors when using

equipment, including choosing the right size for the iob.

An important component of rightsizing is matching equipment that will be working together in the same application. For example, loading and hauling equipment need to match in order to drive optimum efficiency. If a loader is too large for a truck, or vice versa, the project will likely not be as efficient.

Use advanced technology

GPS-based grading helps promote productivity and control per-yard costs to move material. During the past two decades, GPS technology has advanced significantly, with integrated machine control helping to drive lower costs associated with replacing cables, masts and additional satellites.

Many of today's machines with integrated GPS grade control also feature additional technologies, such as Komatsu's proactive dozing control, that help operators get to grade more efficiently and at lower costs, including better fuel usage. Technology is also helping new operators become proficient at moving dirt faster than ever before.

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Accurate measurements at all times

Komatsu's Smart Construction Base/Rover system makes it easy to collect data and measure surfaces relative to 3D designs

nowing at any time how close a jobsite is to the project design's final grade has never been easier.

One of the simplest ways to get accurate measurements is with a Komatsu Smart Construction Base/Rover combination that features advanced global navigation satellite system (GNSS) technology currently available to deliver precise measurements, even in challenging environments.

"Once a project model is loaded, you can take the rover and data collector around the site and get an accurate measurement of how close you are to finish grade."

-Darrell Binnion, Product Trainer, Technology Business Support, Komatsu

Komatsu's Base/Rover technology features patented Universal Tracking Channels designed to enhance the efficiency of identifying and using satellite signals. This innovative approach aims to optimize satellite signal processing, offering users improved connectivity in various conditions.

"Our Komatsu-branded base and rover was designed with customers in mind, with a typical setup that includes a receiver and a data collector, that are compatible with a rover pole, and tripod and bipod poles," said Darrell Binnion, Product Trainer, Technology Business Support, Komatsu. "Once a project model is loaded, you can take the rover and data collector around the site and get an accurate measurement of how close you are to finish grade."

Ultimate signal lock

Easy to learn and use, this versatile solution with a signal scrubbing fence antenna provides ultimate signal lock, high-accuracy RTK (real-time kinematic) positioning, multiple communication configurations and LongLink interference-free communication, helping you complete your work with precision and speed.

Komatsu's Base/Rover system offers:

- Universal Tracking Channels for satellites, signals and constellations
- Integrated radio and modem options with 400MHz UHF RxTx radio or 900 MHz radio, FH915 protocol

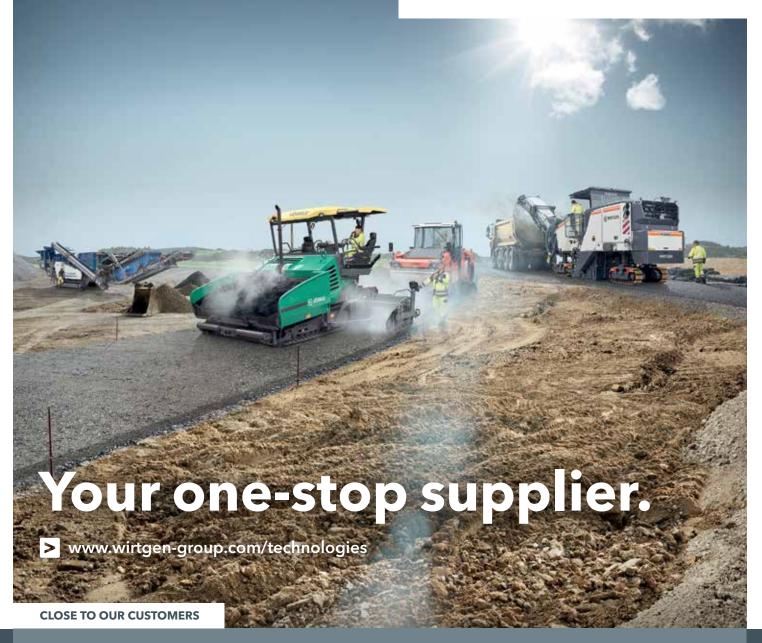
- · L Band-ready technology with HiPer VR
- · A highly configurable design to grow with you
- Topcon Universal Tracking Channels technology that tracks GNSS signals currently available and is designed to track the constellations and signals of tomorrow
- Field-tested, field-ready, IP67-rated design
- Compact form ideal for millimeter GPS and hybrid positioning
- Revolutionary nine-axis IMU and ultra-compact three-axis eCompass
- · Compatibility with Smart Construction Remote

Customers frequently purchase Smart Construction Base/Rover with Komatsu's intelligent machine control dozers and excavators, as well as 3D Machine Guidance and the 3D Machine Guidance Flex kits. These kits use the base and rover units to communicate with satellites and radio, ensuring accurate grading and site layout.

"The setup comes with many advantages, the main one being support and training from our team and your distributor's technical solutions experts," said Binnion. "Another is that you can bundle and purchase with an intelligent machine control dozer and excavator and finance it all together."







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Pave effortlessly

WIRTGEN GROUP rolls out new SP 33 slipform paver at World of Concrete 2025

ersatile, maneuverable and efficient describe the new WIRTGEN SP 33 slipform paver that has two configurations, which thanks to its fully modular construction concept, enable the paving of monolithic concrete profiles. These include curbs and berms, rectangular profiles, concrete safety barriers up to a height of 52 inches, and drainage and gutter profiles.

In the offset paving configuration, the SP 33 can effortlessly pave concrete slabs with a pave width of up to 7 feet, and in combination with a trimmer, up to 8 feet wide. The Crosspave version can pave slabs up to 10 feet wide transversely to the direction of travel of the machine. Both solutions can be controlled by the innovative operating concept with an event-driven graphic display. The ECO mode detects every working situation without the need for manual intervention by the operator and ensures automatic, load-optimized regulation of engine output for optimum engine efficiency, maximum fuel economy and low noise emissions.

The operator is further assisted by the AutoPilot 2.0 control system. The two crawler units with parallelogram swing legs at the front and a laterally adjustable crawler unit at the rear enable zero-clearance installation and maximum flexibility. This makes it the ideal choice for use on construction sites that demand a high degree of maneuverability and the paving of tight radii.

Production System: WPS 102i, SP 124i and TCM 180i

With its concrete paving train orchestration, WIRTGEN also offers completely coordinated machine technologies and practice-oriented equipment variants. They help users to fulfill quality requirements, in particular regarding outstanding evenness of the paved concrete surface. The Production System comprising a WPS 102i placer/spreader, an SP 124i inset slipform paver and a TCM 180i texture curing machine was also on display at World of Concrete.

Stringless paving with AutoPilot 2.0 provides process efficiency

Conventional concrete paving methods rely on a physical stringline for controlling the paving process. As an alternative, WIRTGEN offers its field-proven AutoPilot 2.0 control system, which is available for all offset pavers and placer/spreaders. The need for a physical stringline is eliminated, which results in considerable savings in terms of time and effort and increases the safety of the paving crew. At the same time, the system precisely controls both the height adjustment and steering of the machine. A GNSS signal and, depending on the configuration, various local sensors serve as a reference. It also enables fast and precise paving of tight radii and complex geometrics.



Substantial improvements in performance

WA700-8 wheel loader delivers more power and torque with increased fuel economy that can help reduce operating costs

omatsu has introduced its new WA700-8, a powerful and efficient addition to its range of wheel loaders designed for quarry operations and aggregate producers. This wheel loader is an ideal four-pass match with 70-ton trucks such as Komatsu's new HD605-10 haul truck. The WA700-8 also offers substantial performance, efficiency and operator comfort improvements compared to its predecessor, the WA700-3.

Compared to the previous model, the WA700-8 delivers:

- Up to 8% more gross power and 15% more torque, making it a robust choice for demanding work environments
- A 6% increase in lifting force and rated load, allowing operators to handle larger volumes of material with greater ease
- Up to 8% more fuel efficiency, helping reduce operating costs while maintaining high productivity

The WA700-8 features a comfortable cabin with technology designed to help reduce operator fatigue on long shifts. This includes a new advanced joystick steering system and electronic pilot control levers for precision and ease of operation. An automatic digging system, semi-automatic approach, and semi-auto dump

systems simplify repetitive tasks, helping operators optimize load cycles. These systems are particularly beneficial for less experienced operators, helping to close skills gaps and enhance overall operational efficiency.

Make every pass count

On challenging terrain, the variable traction control system helps prevent tire slippage, prolonging tire life and improving safety in wet or slippery conditions. The loader's modulated clutch system offers precise control for smooth transitions between forward and reverse, which is critical during truck-loading operations. An available KomVision camera system provides operators with a comprehensive view of the machine's surroundings, and Komtrax Plus offers remote monitoring and data-driven insights that can help reduce unplanned downtime.

"The new WA700-8 can help quarry operations hit that sweet spot for 70-ton truck loading, making every pass count," said Sebastian Witkowski, Product Manager. "With a heavier operating weight, greater static tipping load and larger breakout force than the previous model, the WA700-8 is a productive and efficient wheel loader that is ideal for quarry operations."







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Real-time data to optimize operations

Smart Quarry Site offers a comprehensive analysis of production and helps you unlock efficiencies that lead to better production

ou're constantly challenged to be more productive and profitable in the quarry industry. Meeting these challenges means incrementally improving every aspect of your operation. Precisely tracking, digitizing and analyzing every detail of your mobile fleet can unlock the efficiencies you need to meet your targets. That's the goal of Komatsu's Smart Quarry Site.

"Smart Quarry Site offers a more comprehensive tracking over a longer period of time to provide a more in-depth understanding of a quarry and ways to improve it."

-Craig McGinnis, Senior Manager, Customer Solutions, Komatsu

"From a Smart Quarry standpoint, we have two solutions: Study and Site," explained Craig McGinnis, Senior Manager, Customer Solutions, Komatsu. "Smart Quarry Study is a one-time snapshot or benchmark on an operation, whereas Smart Quarry Site offers a more comprehensive tracking over a longer period to provide a more in-depth understanding of a quarry and ways to improve it. We want to reduce total per-ton costs by maximizing and optimizing your equipment and operation."

Hardware and software that tracks

Smart Quarry Site is a software and hardware solution that tracks your machines, then transmits and presents data for you to take action to improve. It delivers a real-time animated overview of every production machine's movement and the materials they are loading, hauling and dumping. Dashboards provide real-time and historical information in insightful and intuitive ways, and each dashboard can generate custom reports.

Smart Quarry Site can help your operation:

 View routes, idle times and locations, so you can remove bottlenecks and waits, increase payloads, reduce fuel consumption and decrease emissions

Continued ...



Optimize your operation

... continued

- Compare operator or shift performance to reward your best operators and coach those needing improvement
- Know how full your haul trucks are, so you can optimize payloads to increase efficiency
- See—in real time—your production against your target and make adjustments to meet shift goals
- Ensure your machines stay productive with comprehensive inspection reporting, issue tracking and maintenance management

"The hardware is wired into your machines, and it's pulling data such as payload from the truck and reporting back to the loader operator, so they know exactly how many tons per pass they have done," said McGinnis. "Data is communicated via the cloud and shows exactly where the material was picked up, where it was dropped off, how that machine got from A to B, and what speed they were traveling."

What's included with Smart Quarry Site

A Smart Quarry Site subscription includes:

- · A site readiness investigation and report
- · Initial site master data site setup
- Cloud hosting and server maintenance
- Software and firmware remote updates
- · Installation of hardware to each machine
- · On-site commissioning for each machine
- One-day operator training for each vehicle and ongoing support

"Smart Quarry Site is brand agnostic, so it's effective on mixed fleets with any combination of trucks, loaders, excavators, graders and dozers," noted McGinnis. "We have a dedicated

team that's ready to deploy to the site, monitor and work with customers to optimize their operations."

Prime example

McGinnis used an example to show how Smart Quarry Site can help maximize efficiency and lower overall costs. The solution was employed on a large quarry, but McGinnis said Smart Quarry Site can benefit operations of all sizes.

"Smart Quarry Site is brand agnostic, so it's effective on mixed fleets with any combination of trucks, loaders, excavators, graders and dozers."

> Craig McGinnis, Senior Manager, Customer Solutions, Komatsu

"One customer realized they were underloading, so they saw an uptick of 7% to 8% in their trucks' payloads, which equated to about eight additional tons per truck," McGinnis stated. "If you're running 100-ton trucks, and each has that much more on every load during a 10- to 12-hour day, it adds up significantly. That's a big bottom-line improvement."

McGinnis added, "Something like that could also change practices because if you hit a production target faster, you don't have to run as many hours. That saves wear and tear on the machines, reducing maintenance and further increasing savings. We recommend that you contact your distributor for more information about getting started."



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